

# Product Datasheet

## Histone H4 Antibody NBP2-59264

Unit Size: 50 ug

Store at -20C. Avoid freeze-thaw cycles.

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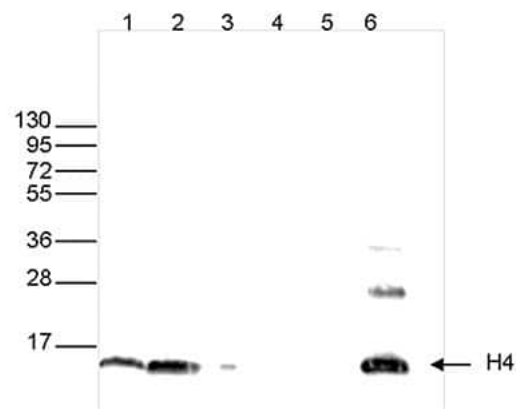
**NBP2-59264**

## Histone H4 Antibody

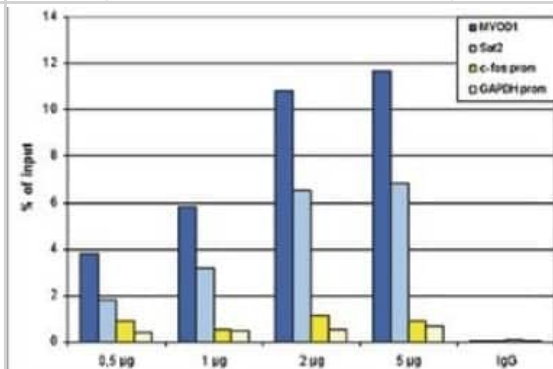
<b>Product Information</b>	
<b>Unit Size</b>	50 ug
<b>Concentration</b>	Please see the vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at -20C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.05% Sodium Azide and 0.05% ProClin 300
<b>Isotype</b>	IgG
<b>Purity</b>	Peptide affinity purified
<b>Buffer</b>	PBS
<b>Product Description</b>	
<b>Host</b>	Rabbit
<b>Gene ID</b>	121504
<b>Gene Symbol</b>	HIST4H4
<b>Species</b>	Human
<b>Immunogen</b>	The exact immunogen is proprietary information.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Chromatin Immunoprecipitation, ELISA, Immunocytochemistry/ Immunofluorescence
<b>Recommended Dilutions</b>	Western Blot 1:1000, Chromatin Immunoprecipitation 1 - 2 ug, ELISA 1:100, Immunocytochemistry/ Immunofluorescence

## Images

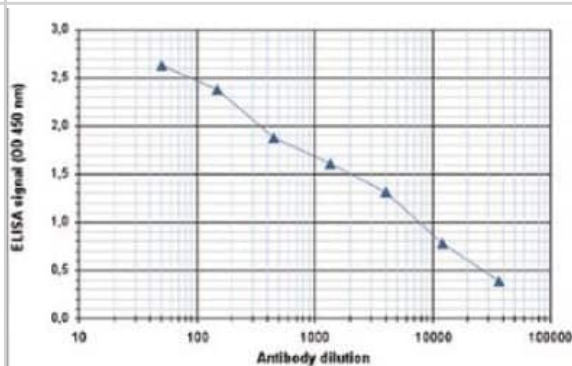
**Western Blot: Histone H4 Antibody [NBP2-59264]** - Western blot was performed on whole cell extracts (25 ug, lane 1) and histone extracts (15 ug, lane 2) from HeLa cells, and on 1 ug of recombinant histone H2A, H2B, H3 and H4 (lane 3, 4, 5 and 6, respectively) using the antibody against H4. The antibody was diluted 1:1,000 in TBS-Tween containing 5% skimmed milk. The position of the protein of interest is indicated on the right; the marker (in kDa) is shown on the left.



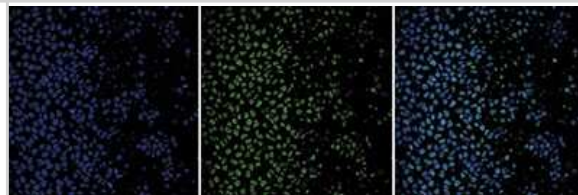
**Chromatin Immunoprecipitation: Histone H4 Antibody [NBP2-59264]** - ChIP assays were performed using human HeLa cells, the antibody against H4 and optimized PCR primer pairs for qPCR. ChIP was performed using sheared chromatin from 1 million cells. A titration consisting of 0.5, 1, 2 and 5 ug of antibody per ChIP experiment was analyzed. IgG (1 ug/IP) was used as a negative IP control. Quantitative PCR was performed with primers specific for the promoters of the active GAPDH and c-fos genes, and for the inactive MYOD1 gene and the Sat2 satellite repeat. Figure shows the recovery, expressed as a % of input (the relative amount of immunoprecipitated DNA compared to input DNA after qPCR analysis).



**ELISA: Histone H4 Antibody [NBP2-59264]** - To determine the titer of the antibody, an ELISA was performed using a serial dilution of the antibody directed against H4 in antigen coated wells. By plotting the absorbance against the antibody dilution, the titer of the antibody was estimated to be 1:3,000.



**Immunofluorescence: Histone H4 Antibody [NBP2-59264]** - HeLa cells were stained with the antibody against H4 and with DAPI. Cells were fixed with 4% formaldehyde for 10 minutes and blocked with PBS/TX-100 containing 1% BSA. The cells were immunofluorescently labeled with the H4 antibody (middle) diluted 1:1,000 in blocking solution followed by an anti-rabbit antibody conjugated to Alexa Fluor 488. The left panel shows staining of the nuclei with DAPI. A merge of the two stainings is shown on the right.





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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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